BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work : Improvements to Roads and Drains at Gupta Layout and Surrounding Area Roads in Ward No 06 Thanisandra

Pre Measurement

Job Code : 006-20-000012

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BRUHATH BANGALORE MAHANAGARAPALIKE
YELAHANKA ZONE
Pre Measurements

Name of work: Improvements to Roads and Drains at Gupta Vidyasagara Layout and Surrounding Area Roads in Ward No 06 Thanisandra

Work Order No: BBMP/EE/BTP/WO/159/2020-21 dt: 10.12.2020

JOB NUMBER: 006-21-000012

Estimate Cost: 100.00 lakhs.

Name of Contractor : Sri. M.L Dhananjaya

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty
1	KSRRB 300 - **Excavation for road, drains** and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 Page No. 142 / Item No. 19.1, PWD SR 2016-17						
	For Drain.	cum					
a	Vidyasagar HP school road 1st cross W1168		1	30.00	1.20	0.95	34.20
			1	30.00	1.20	0.95	34.20
b	2nd cross W1172		1	30.00	1.20	1.00	36.00
			1	30.00	1.20	0.95	34.20
			1	30.00	1.20	1.00	36.00
			1	30.00	1.20	1.00	36.00
			1	30.00	1.20	0.95	34.20
			1	25.60	1.20	1.00	30.72
c	4th cross road W 1799		1	30.00	1.20	1.00	36.00
			1	30.00	1.20	1.00	36.00
			1	19.00	1.20	1.00	22.80
d	5th cross road - R/s W 1182		1	30.00	1.20	1.00	36.00
			1	15.10	1.20	1.00	18.12
e	L/s W 1182		1	29.70	1.20	1.00	35.64
			1	20.00	1.20	1.00	24.00
f	cross road		1	40.00	1.20	0.95	45.60
g	Rasool Layout road R/s W 1779		1	30.00	1.20	1.00	36.00
			1	30.00	1.20	1.00	36.00
			1	23.00	1.20	0.95	26.22
	L/s W 1779		1	30.00	1.20	0.95	34.20
			1	30.00	1.20	0.95	34.20
			1	23.50	1.20	0.95	26.79
b	For Culverts						
	Cd1		1	5.50	0.60	0.50	1.65
	Cd2		1	4.90	0.60	0.45	1.32
	Cd3		1	4.90	0.60	0.50	1.47
	Cd4		1	4.90	0.60	0.60	1.76
	Cd5		1	4.90	0.60	0.45	1.32
	Cd6		1	4.90	0.60	0.45	1.32
					Actiual Qty		**731.94**
					Limited to		**729.66**

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

	KRS 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13

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No	Description of work	Unit	Mesurement No.	L	B	D	Qty
	Cd1	Cum	2	5.50	0.60	0.40	2.64
	Cd2		2	4.90	0.60	0.20	1.18
	Cd3		2	4.90	0.60	0.40	2.35
	Cd4		2	4.90	0.60	0.40	2.35
	Cd5		2	4.90	0.60	0.20	1.18
	Cd6		2	4.90	0.60	0.40	2.35
					Actiual Qty		12.05
					Limited to		9.86

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

3	KSRRB M2100 PCC 1 KSRRB M2100-10. Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification No. 2100 Pg no:222 Item no:27.18						
	For Drain.						
a	Vidyasagar HP school road 1st cross W1168	cum	1	30.00	1.15	0.15	5.18
			1	30.00	1.15	0.15	5.18
b	2nd cross W1172		1	30.00	1.15	0.15	5.18
			1	30.00	1.15	0.15	5.18
			1	30.00	1.15	0.15	5.18
			1	30.00	1.15	0.15	5.18
			1	30.00	1.15	0.15	5.18
			1	25.60	1.15	0.15	4.42
c	4th cross road W 1799		1	30.00	1.15	0.15	5.18
			1	30.00	1.15	0.15	5.18
			1	19.00	1.15	0.15	3.28
d	5th cross road - R/s W 1182		1	30.00	1.15	0.15	5.18
			1	15.10	1.15	0.15	2.60
e	L/s W 1182		1	29.70	1.15	0.15	5.12
			1	20.00	1.15	0.15	3.45
f	cross road		1	40.00	1.15	0.15	6.90
g	Rasool Layout road R/s W 1779		1	30.00	1.15	0.15	5.18
			1	30.00	1.15	0.15	5.18
			1	23.00	1.15	0.15	3.97
	L/s W 1779		1	30.00	1.15	0.15	5.18
			1	30.00	1.15	0.15	5.18
			1	23.50	1.15	0.15	4.05
b	For Culverts						
1	for vent Cd1		1	4.30	0.60	0.15	0.39
2	Cd2		1	6.10	0.60	0.15	0.55
3	Cd3		1	5.10	0.60	0.15	0.46
4	Cd4		1	4.50	0.60	0.15	0.41
	wall coping		2	4.30	0.60	0.15	0.77
			2	6.10	0.60	0.15	1.10
			2	5.10	0.60	0.15	0.92
			2	4.50	0.60	0.15	0.81
	For concrete road						
a	Vidyasagar HP school road 1st cross W1168		1	15.00	4.90+4.60	0.15	10.80
					2		
			1	15.00	4.70+4.50	0.15	10.35
					2		
			1	15.00	4.50+4.80	0.15	10.46
					2		
			1	15.00	4.80+4.50	0.15	10.46
					2		
			1	15.00	4.50+4.30	0.15	9.90

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No	Description of work	Unit	Mesurement No.	L	B	D	Qty
	Cd1	Cum	2	5.50	0.60	0.40	2.64
	Cd2		2	4.90	0.60	0.20	1.18
	Cd3		2	4.90	0.60	0.40	2.35
	Cd4		2	4.90	0.60	0.40	2.35
	Cd5		2	4.90	0.60	0.20	1.18
	Cd6		2	4.90	0.60	0.40	2.35
					Actual Qty		12.05
					Limited to		9.86

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

3	KSRRB M2100 PCC 1 KSRRB M2100-10. Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification No. 2100 Pg no:222 Item no:27.18						
	For Drain.						
a	Vidyasagar HP school road 1st cross W1168	cum	1	30.00	1.15	0.15	5.18
			1	30.00	1.15	0.15	5.18
b	2nd cross W1172		1	30.00	1.15	0.15	5.18
			1	30.00	1.15	0.15	5.18
			1	30.00	1.15	0.15	5.18
			1	30.00	1.15	0.15	5.18
			1	30.00	1.15	0.15	5.18
			1	25.60	1.15	0.15	4.42
c	4th cross road W 1799		1	30.00	1.15	0.15	5.18
			1	30.00	1.15	0.15	5.18
			1	19.00	1.15	0.15	3.28
d	5th cross road - R/s W 1182		1	30.00	1.15	0.15	5.18
			1	15.10	1.15	0.15	2.60
e	L/s W 1182		1	29.70	1.15	0.15	5.12
			1	20.00	1.15	0.15	3.45
f	cross road		1	40.00	1.15	0.15	6.90
g	Rasool Layout road R/s W 1779		1	30.00	1.15	0.15	5.18
			1	30.00	1.15	0.15	5.18
			1	23.00	1.15	0.15	3.97
	L/s W 1779		1	30.00	1.15	0.15	5.18
			1	30.00	1.15	0.15	5.18
			1	23.50	1.15	0.15	4.05
b	For Culverts						
1	for vent Cd1		1	4.30	0.60	0.15	0.39
2	Cd2		1	6.10	0.60	0.15	0.55
3	Cd3		1	5.10	0.60	0.15	0.46
4	Cd4		1	4.50	0.60	0.15	0.41
	wall coping		2	4.30	0.60	0.15	0.77
			2	6.10	0.60	0.15	1.10
			2	5.10	0.60	0.15	0.92
			2	4.50	0.60	0.15	0.81
	For concrete road						
a	Vidyasagar HP school road 1st cross W1168		1	15.00	4.90+4.60	0.15	10.80
					2		
			1	15.00	4.70+4.50	0.15	10.35
					2		
			1	15.00	4.50+4.80	0.15	10.46
					2		
			1	15.00	4.80+4.50	0.15	10.46
					2		
			1	15.00	4.50+4.30	0.15	9.90

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Sl	Description of work	Unit	Mesurement No.	L	B	D	Qty
					2		
b	2nd cross W1172		1	15.00	5.10+5.10	0.15	11.48
					2		
			1	15.00	5.10+5.00	0.15	11.42
					2		
			1	15.00	5.25+5.05	0.15	11.59
					2		
			1	15.00	5.25+5.00	0.15	11.53
					2		
			1	15.00	5.00+4.80	0.15	11.03
					2		
			1	8.80	4.80+4.95	0.15	6.44
					2		
			1	14.80	4.10+3.90	0.15	8.88
					2		
			1	15.00	4.90+4.20	0.15	10.24
					2		
			1	15.00	4.70+4.10	0.15	9.90
					2		
			1	15.00	4.10+4.95	0.15	10.18
					2		
			1	6.00	4.95+5.10	0.15	4.52
					2		
			1	15.00	4.20+4.25	0.15	9.51
					2		
			1	11.00	4.25+4.95	0.15	7.59
					2		
			1	12.60	3.10+4.[illegible]	0.15	[illegible]
					2		
c	5th cross road - W 1182	cum	1	13.00	4.30+4.35	0.15	8.43
					2		
			1	10.80	3.40+3.50	0.15	5.59
					2		
			1	15.00	4.10+4.40	0.15	9.56
					2		
			1	15.00	4.40+4.50	0.15	10.01
					2		
			1	15.00	4.50+4.20	0.15	9.79
					2		
			1	10.70	4.20+4.00	0.15	6.58
					2		
d	cross road B		1	15.00	6.55+5.00	0.15	12.99
					2		
			1	15.00	5.00+3.95	0.15	10.07
					2		
			1	11.60	3.95+3.30	0.15	6.31
					2		
e	Rasool Layout road W 1779		1	15.00	3.50+3.90	0.16	8.88
					2		
			1	15.00	3.90+4.35	0.15	9.28
					2		
			1	15.00	4.35+4.30	0.15	9.73
					2		
			1	15.00	4.30+4.30	0.15	9.68
					2		
			1	15.00	4.30+4.25	0.15	9.62
					2		
			1	8.55	4.25+4.25	0.15	5.45
					2		
f	Temple road W 1821 Ch 61.00 to 65.00 m		1	4.00	3.50+3.15	0.15	2.00

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Sl	Description of work	Unit	Mesurement No.	L	B	D	Qty
	cross road						
	Rasool Layout road R/s W 1779		267	2	2.25		1200.00
			200	2	2.25		900.00
			200	2	2.25		900.00
	L/s W 1779		153	2	2.25		690.00
			200	2	2.25		900.00
			200	2	2.25		900.00
			157	2	2.25		705.00
				Total Length in Mtr			18027.00
				wt @ 0.62kg/mtr			11176.74
b	8 mm dia distribution bars						
	Gupta Layout						
	Vidyasagar HP school road 1st cross W1168		10	30.00			300
			10	30.00			300
	2nd cross W1172		10	30.00			300
			10	30.00			300
			10	30.00			300
			10	30.00			300
			10	30.00			300
			10	25.60			256
	4th cross road W 1799		10	30.00			300
			10	30.00			300
			10	19.00			190
	5th cross road - R/s W 1182		10	30.00			300
			10	15.10			151
	L/s W 1182		10	29.70			297
			10	20.00			200
	cross road		10	40.00			400
	Rasool Layout road R/s W 1779		10	30.00			300
			10	30.00			300
			10	23.00			230
	L/s W 1779		10	30.00			300
			10	30.00			300
			10	23.50			235
				Total Length in Mtr			6159.00
				wt @ 0.39kg/mtr			2402.01
	for culverts 12 mm dia bars						
	Cd1		37	2.45	2		181.30
	Cd2		33	2.45	2		161.70
	Cd3		33	2.45	2		161.70
	Cd4		33	2.45	2		161.70
	Cd5		33	2.45	2		161.70
	Cd6		33	2.45	2		161.70
				Total Length in Mtr			**989.80**
			C	**wt @ 0.89kg/mtr**			**880.922**
	10 mm dia bars						
	Cd1		10	5.50			55.00
	Cd2		10	4.90			49.00
	Cd3		10	4.90			49.00
	Cd4		10	4.90			49.00
	Cd5		10	4.90			49.00

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No	Description of work	Unit	Mesurement No.	L	B	D	Qty
					2		
			1	15.00	4.50+4.20	0.45	29.36
					2		
			1	10.70	4.20+4.00	0.45	19.74
					2		
d	cross road B		1	15.00	6.55+5.00	0.50	43.31
					2		
			1	15.00	5.00+3.95	0.45	30.21
					2		
			1	11.60	3.95+3.30	0.45	18.92
					2		
e	Rasool Layout road W 1779		1	15.00	3.50+3.90	0.45	24.98
					2		
			1	15.00	3.90+4.35	0.45	27.84
					2		
			1	15.00	4.35+4.30	0.45	29.19
					2		
			1	15.00	4.30+4.30	0.45	29.03
					2		
			1	15.00	4.30+4.25	0.45	29.03
					2		
			1	8.55	4.25+4.25	0.45	16.35
					2		
f	Temple road W 1821 Ch 61.00 to 65.00 m		1	4.00	3.50+3.15	0.45	5.99
					2		
	Ch 65.00 to 80.00 m		1	15.00	3.15+3.00	0.45	20.76
					2		
	Ch 80.00 to 82.30 m		1	2.30	3.00+2.40	0.45	2.79
					2		
			1	4.50	3.1+3.10	0.45	6.28
					2		
	deduct						997.17
	Manholes		12	0.785	0.81	0.45	3.43
	Small chambers		27	0.45	0.45	0.45	2.46
						total ded	5.89
					Actiual Qty		991.27
					Limited to		990.30

04.01.2024
Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

10	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)						
a	Vidyasagar HP school road 1st cross W1168		1	15.00	4.90+4.60		72.00
					2		
			1	15.00	4.70+4.50		69.00
					2		
			1	15.00	4.50+4.80		69.75
					2		
			1	15.00	4.80+4.50		69.75
					2		
			1	15.00	4.50+4.30		66.00
					2		
b	2nd cross W1172		1	15.00	5.10+5.10		76.50
					2		
			1	15.00	5.10+5.00		76.25
					2		
			1	15.00	5.25+5.00		78.75
					2		

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	Description of work	Unit	Mesurement No.	L	B	D	Qty
			1	15.00	5.25+5.00		76.88
					2		
			1	15.00	5.00+4.80		73.50
					2		
			1	8.80	4.80+4.95		42.90
					2		
			1	14.80	4.10+3.90		59.20
					2		
			1	15.00	4.90+4.20		68.25
					2		
			1	15.00	4.70+4.10		66.00
					2		
			1	15.00	4.10+4.95		67.88
					2		
			1	6.00	4.95+5.10		30.15
					2		
			1	15.00	4.20+4.25		63.38
					2		
			1	11.00	4.25+4.95		50.60
					2		
			1	12.60	3.10+4.05		45.05
					2		
c	5th cross road - W 1182	cum	1	13.00	4.30+4.35		56.23
					2		
			1	10.80	3.40+3.50		37.26
					2		
			1	15.00	4.10+4.40		63.75
					2		
			1	15.00	4.40+4.50		66.75
					2		
			1	15.00	4.50+4.20		65.25
					2		
			1	10.70	4.20+4.00		43.87
					2		
d	cross road B		1	15.00	6.55+5.00		86.63
					2		
			1	15.00	5.00+3.95		67.88
					2		
			1	11.60	3.95+3.30		42.63
					2		
e	Rasool Layout road W 1779		1	15.00	3.50+3.90		55.50
					2		
			1	15.00	3.90+4.35		61.88
					2		
			1	15.00	4.35+4.30		64.88
					2		
			1	15.00	4.30+4.30		64.50
					2		
			1	15.00	4.30+4.25		64.13
					2		
			1	8.55	4.25+4.25		36.34
					2		
f	Temple road W 1821 Ch 61.00 to 65.00 m		1	4.00	3.50+3.15		13.30
					2		
	Ch 65.00 to 80.00 m		1	15.00	3.15+3.00		46.13
					2		
	Ch 80.00 to 82.30 m		1	2.30	3.00+2.40		6.21
					2		
			1	4.50	3.1+3.10		13.95
					2		

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	Description of work	Unit	Mesurement No.	L	B	D	Qty
	Deduct Qty						2176.80
	Manholes		12	0.785	0.81		7.63
	Small chambers		27	0.45	0.45		5.47
						total ded	13.10
						Actiual Qty	2163.70
						Limited to	2163.26

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

11	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5.P No-153)						
a	Vidyasagar HP school road 1st cross W1168		1	15.00	4.90+4.60	0.15	10.80
					2		
			1	15.00	4.70+4.50	0.15	10.35
					2		
			1	15.00	4.50+4.80	0.15	10.46
					2		
			1	15.00	4.80+4.50	0.15	10.46
					2		
			1	15.00	4.50+4.30	0.15	9.90
					2		
b	2nd cross W1172		1	15.00	5.10+5.10	0.15	11.48
					2		
			1	15.00	5.10+5.00	0.15	11.42
					2		
			1	15.00	5.25+5.05	0.15	11.59
					2		
			1	15.00	5.25+5.00	0.15	11.53
					2		
			1	15.00	5.00+4.80	0.15	11.03
					2		
			1	8.80	4.80+4.95	0.15	6.44
					2		
			1	14.80	4.10+3.90	0.15	8.88
					2		
			1	15.00	4.90+4.20	0.15	10.24
					2		
			1	15.00	4.70+4.10	0.15	9.90
					2		
			1	15.00	4.10+4.95	0.15	10.18
					2		
			1	6.00	4.95+5.10	0.15	4.52
					2		
			1	15.00	4.20+4.25	0.15	9.51
					2		
			1	11.00	4.25+4.95	0.15	7.59
					2		
			1	12.60	3.10+4.05	0.15	6.76
					2		
c	5th cross road - W 1182	cum	1	13.00	4.30+4.35	0.15	8.43
					2		
			1	10.80	3.40+3.50	0.15	5.59
					2		
			1	15.00	4.10+4.40	0.15	9.56
					2		

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	Description of work	Unit	Mesurement No.	L	B	D	Qty
			1	15.00	4.40+4.50	0.15	10.01
					2		
			1	15.00	4.50+4.20	0.15	9.79
					2		
			1	10.70	4.20+4.00	0.15	6.58
d	cross road B				2		
			1	15.00	6.55+5.00	0.17	14.73
					2		
			1	15.00	5.00+3.95	0.18	12.08
					2		
			1	11.60	3.95+3.30	0.17	7.15
e	Rasool Layout road W 1779				2		
			1	15.00	3.50+3.90	0.15	8.33
					2		
			1	15.00	3.90+4.35	0.15	9.28
					2		
			1	15.00	4.35+4.30	0.15	9.73
					2		
			1	15.00	4.30+4.30	0.15	9.68
					2		
			1	15.00	4.30+4.25	0.15	9.62
					2		
			1	8.55	4.25+4.25	0.15	5.45
					2		
f	Temple road W 1821 Ch 61.00 to 65.00 m		1	4.00	3.50+3.15	0.15	2.00
					2		
	Ch 65.00 to 80.00 m		1	15.00	3.15+3.00	0.15	6.92
					2		
	Ch 80.00 to 82.30 m		1	2.30	3.00+2.40	0.15	0.93
					2		
			1	4.00	3.1+3.10	0.15	1.86
					2		
	ramp		1	5.50	0.60	0.15	0.50
			1	4.90	0.60	0.15	0.44
			1	4.90	0.60	0.15	0.44
							332.11
	deduct Manholes		12	0.785	0.81	0.15	1.14
	Small chambers		27	0.45	0.45	0.15	0.82
					total ded		**1.96**
					Actiual Qty		**330.14**
					Limited to		**330.10**

12.01.2024
Assistant Engineer
ಸಹಾಯಕ ಅಭಿಯಂತರರು
Ward No. 06
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

12/1/24
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
Assistant Executive Engineer
Byatarayanapura Sub Division
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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